

# Small induction heater TIH 030m

## Small bearing heater with high heating capacity of up to 40 kg bearing

The new SKF small induction heater TIH 030m combines high heating capacity with portability. The compact lightweight design makes the TIH 030m portable. Placing the induction coil outside the heater's housing allows the heating of bearings weighing up to 40 kg (88 lb). The heater is equipped with thermal overheating protection to reduce the risk of damage to the induction coil and the electronics.

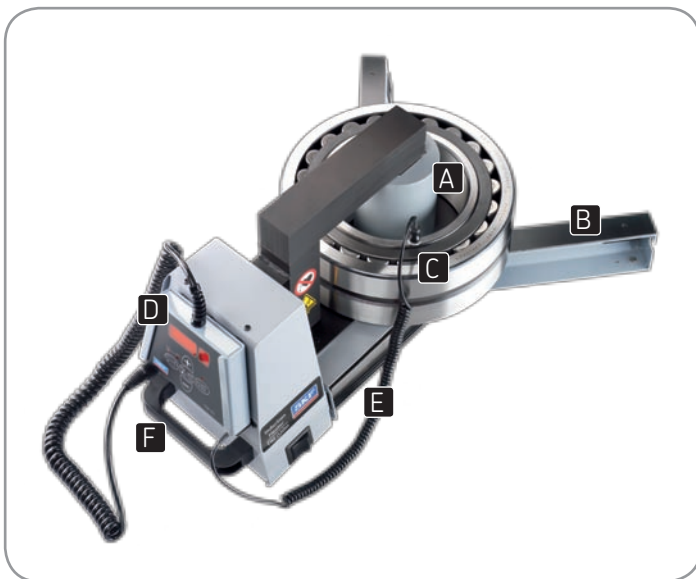
In addition to temperature mode, the TIH 030m is equipped with a time mode for heating components other than bearings. The heater is supplied standard with three yokes and is available in two executions: 230V/50–60Hz and 100–110V/50–60Hz.

### SKF m20 concept

“m<sub>20</sub>” represents the weight (kg) of the heaviest SRB 231 bearing which can be heated from 20 to 110 °C (68 to 230 °F) in 20 minutes. This defines the heater's power output instead of its power consumption.

- Compact lightweight design; just 20,9 kg (46,0 lb) facilitating portability
- 2-step power setting and smaller yokes allow heating smaller bearings safely and at lower power consumption
- Capable of heating a 28 kg (61,7 lb) bearing in just 20 minutes
- Temperature mode pre-set at 110 °C (230 °F) to help prevent bearing over-heating
- Automatic demagnetisation
- 3 years warranty





- A** Induction coil outside the heater's housing allows shorter heating time and lower energy consumption
- B** Foldable bearing support arms facilitate the heating of larger diameter bearings
- C** Magnetic temperature probe helps prevent bearing overheating
- D** Easy-to-use control panel and LED display integrated in a remote control
- E** Internal storage for all 3 yokes reduces the risk of yoke damage or loss
- F** Integrated carrying handle facilitates portability

#### Technical data

**Designation** TIH 030M

**SKF m20 performance** 28 kg (61,7 lb)

**Voltage, V/Hz** 230V/50 – 60Hz or  
110V/50 – 60Hz

#### Work piece:

- Maximum weight 40 kg (88 lb)
- Maximum bore diameter 20 – 300 mm  
(0,8 – 11,8 in)

#### Temperature control:

- Range 0 – 250 °C (32 – 482 °F)
- Magnetic probe Yes, K-type
- Accuracy (electronics)  $\pm 2$  °C ( $\pm 3,6$  °F)

#### Time control:

- Range 0 – 60 minutes
- Accuracy  $\pm 0,01$  sec.

**Maximum temperature (approx.)** 400 °C  
(750 °F)

**Thermometer mode** Yes

**Bearing mode** Yes

**Power reduction** 2-step; 50 – 100%

**Demagnetisation according to SKF norms (automatic)** Yes (<2 A/cm)

**Can heat sealed bearings** Yes

**Can heat pre – greased bearings** Yes

**Error guiding codes** Yes

**Thermal overload protection** Yes

**Maximum magnetic flux** 1,7 T

#### Control panel

Key board with LED in remote control

#### Operating area (w × h)

100 × 135 mm (3,9 × 5,3 in)

#### Coil diameter

95 mm (3,7 in)

#### Dimensions (w × d × h)

450 × 195 × 210 mm  
(17,7 × 7,6 × 8,2 in)

#### Total weight, including yokes

20,9 kg  
(46 lb)

#### Maximum power consumption

2,0 kVA

#### Number of standard yokes

3

#### Standard yokes

45 × 45 × 215 mm (1,7 × 1,7 × 8,4 in),  
for heating bearings with bore  
diameter of 65 mm (2,6 in) and larger  
28 × 28 × 215 mm (1,1 × 1,1 × 8,4 in),  
for heating bearings with bore  
diameter of 40 mm (1,6 in) and larger  
14 × 14 × 215 mm (0,5 × 0,5 × 8,4 in),  
for heating bearings with bore  
diameter of 20 mm (0,8 in) and larger

#### Core cross section

45 × 45 mm  
(1,7 × 1,7 in)

#### Yoke storage

Yes, foldable

#### Sliding arm

No

#### Swivel arm

No

#### Cooling fan

No

#### Housing material

Steel and glass filled polyamide

#### Warranty period

3 years

® SKF is a registered trademark of the SKF Group

© SKF Group 2009

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

MP/PDS TIH030 EN • October 2009

[www.mapro.skf.com](http://www.mapro.skf.com) • [skf.com/mount](http://skf.com/mount) • [skf.com/lubrication](http://skf.com/lubrication)

